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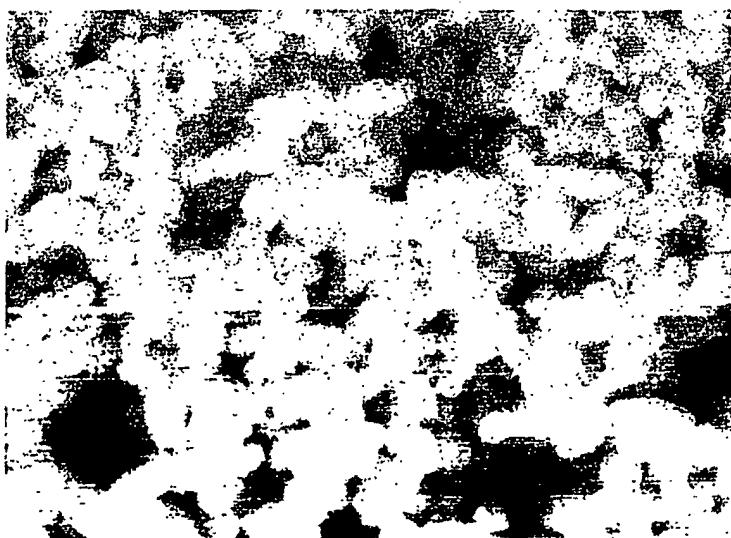
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(54) Title: METHOD FOR PREPARING SINGLE CRYSTALLINE CERIUM OXIDE POWDERS



Ir SEI 5.0kV x100,000 100nm HD 6mm

(57) Abstract: The present invention relates to a method for preparing single crystalline cerium oxide nanopowder capable of easily controlling the shape and granularity of particles. The method includes preparing cerium hydroxide by precipitating a cerium salt in the presence of a solvent mixture of organic solvent and water and hydrothermally reacting the prepared cerium hydroxide. The prepared single crystalline cerium oxide has a particle size of not less than about 30 nm and an excellent degree of dispersion.